

### CTE Standards Unpacking **Digital Music Production**

**Course:** Digital Music Production

**Course Description:** The Digital Music Production course provides students with the basic knowledge and technical skills needed to prepare them for postsecondary study or entry-level employment in the Digital Music Production industry. Students will develop knowledge of the business of music, music copyright laws and ethics, studio recording, basic music theory needed to create music, and the creation and performance of electronic music.

**Career Cluster:** Arts, A/V Technology, Communications

**Prerequisites:** Recommendation only: Introduction to Arts, A/V Technology, and Communications Cluster class and basic music appreciation or musical experience **Program of Study Application:** This is a secondary level pathway class in the Arts, A/V Technology and Communications Career Cluster, Telecommunications/A-V Technology and Film or Performing Arts pathway. It is preceded by the Introduction to Arts, A/V Technology, and Communications cluster class. It may be followed up with any pathway level 3 or 4 class or a Capstone Experience.

## INDICATOR #DMP 1: Discuss careers in digital music and audio production

SUB-INDICATOR 1.1 (Webb Level: 1 Recall): Identify opportunities and occupations in the field of digital music

SUB-INDICATOR 1.2 (Webb Level: 3 Strategic Thinking): Demonstrate personal musical knowledge and interests

SUB-INDICATOR 1.3 (Webb Level: 3 Strategic Thinking): Examine music copyright laws and ethics

SUB-INDICATOR 1.4 (Webb Level: 1 Recall): Identify safety concerns and soft skills				
in the field of digital music				
Knowledge (Factual):	Understand (Conceptual):	Do (Application):		
-Impact of music on	-Proper use of social media	-Self-evaluate personal		
setting the mood in	in this area (SoundCloud).	music knowledge and		
multimedia products.	-Ethical and legal issues	interests.		
-Multi-faceted career	relating to digital music	-Research audio and		
opportunities in music	recording.	music production		
industry.	-Standard practice of	companies that supply music to the		
-Laws and ethics that	situational awareness on	entertainment industry.		
govern digital music.	stage or at a music venue	circor carrinonie in augery.		
80 1011 1181111111111111111111111111111	(cord layout, where	-Interview professional		
-Effective and	instruments are, edge of	musicians who create		
appropriate interactions	stage, other people).	music for broadcast.		
with collaborators and audience.	-How to rate movies,	-Explore the requirements, skills,		



-Proper handling of	television and films	wages, education, and
equipment and	according to audio	geographic opportunities
instruments.	production.	in audio and music technology.
-Dangers associated with handling electrical equipment.		-Evaluate the importance of music and audio in entertainment.
		-Illustrate the effect of music production in movies (e.g., Jaws).
		-Demonstrate effective communication (written and verbal).
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### **Benchmarks:**

Students will be assessed on their ability to:

- Assess computer games for effectiveness of music and sound effects.
- Identify and explain music technology in pre-recorded music beds and sound effects.
- Generate a presentation of favorite genres with examples.
- Create and properly utilize a SoundCloud account to share music for a specified purpose.
- Collaboratively present on copywriting procedures for original compositions or productions.

# **Academic Connections** ELA Literacy and/or Math Standard Sample Performance Task Aligned to (if applicable, Science and/or Social the Academic Standard(s): Studies Standard): W.7 Conduct short as well as more -Assessment of music and sound sustained research projects to answer a effectiveness question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation. SL.1. Initiate and participate effectively -Copyright presentation in a range of collaborative discussions



	lyze digital audio production  b Level: 4 Extended Thinking)	
	b Level: 4 Extended Thinking	: Analyze recorded. live
,	rated music for technical and a	•
Knowledge (Factual):	Understand (Conceptual):	Do (Application):
-Analog and digital sound	-Process for converting live	-Listen and record
technology.	sound to usable recorded	sounds (e.g., Foley -
	sound.	recorded sound effects
-Quality and care of	Harrish a manardin a manara	for movies) using
equipment	-How the recording process and equipment influence	available recording devices
-Sources for free and	recorded files.	devices
paid resources for sound	recorded files.	-Draw examples of sound
effects, audio clips,	-Microphone and speaker	frequencies
speeches and music	location as it relates to	1
-	sound quality.	-Compare recording
		equipment for sound
	-Difference between analog	quality.
	and digital sound quality.	
	Evolution of digital audio	-Listen to and evaluate
	-Evolution of digital audio.	"live" audio and compare it to studio recordings.
		it to studio recordings.
		-Research and assess
		digital studios based on
		acoustics, microphone
		placement, and ceiling
		height.
		-Differentiate between
		analog and digital sound
		quality.

# Benchmarks:

Students will be assessed on their ability to:

• Explore live concert venues and discuss speaker placement, microphone amounts, placement and area capacity and create a diagram.



- Classify major types of recording media as well as advantages and disadvantages of each.
- Critique real guitar or piano sound with a digitally created guitar or piano piece based on sound quality.

### **Academic Connections**

# ELA Literacy and/or Math Standard (if applicable, Science and/or Social Studies Standard):

W.4 – Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

SL.4 Present information, findings, and supporting evidence clearly, concisely, and logically such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose, audience, and task.

# Sample Performance Task Aligned to the Academic Standard(s):

-Write a reflection on historical development of sound recording devices, methods or usage.

-Sound quality critique

### INDICATOR #DMP 3: Create digital music

**SUB-INDICATOR 3.1 (Webb Level: 4 Extended Thinking):** Integrate basic music structure

**SUB-INDICATOR 3.2 (Webb Level: 2 Skill/Concept):** Distinguish appropriate audio production software, equipment, and techniques

**SUB-INDICATOR 3.3 (Webb Level: 4 Extended Thinking):** Generate audio (music, sound effects, vocal work) separately for use in musical piece

**SUB-INDICATOR 3.4 (Webb Level: 4 Extended Thinking):** Construct layered digital music for publication or performance

Knowledge (Factual):	Understand (Conceptual):	Do (Application):
-Different rules	-General music rules (most	-Explore basic music
governing composition.	commonly used techniques,	structure (form -
	what you should/should not	AB/ABA;
-Basic audio and editing	consider doing when	Intro/Verse/Chorus/Bri
industry terminology.	creating music)	dge/Outro)
-Various technology tools	-How expected audio	-Identify tempo/beat,



for creating music, sound effects and audio files.

- -Layering process
- -How to utilize tools and equipment to generate various audio file formats.

outcomes determine the technology tool(s) to be employed.

-How to utilize layering processes.

meter, dynamics, melody, harmony, rhythm of music, chords, scales.

- -Practice writing music using basic notation (e.g., staff, clef, ledger lines, measures, time signature, notes, rests, key signature).
- -Transfer recorded sounds from recording device into appropriate audio production software (Free shareware or Licensed software).
- -Change volume levels for multiple audio tracks.
- -Use meters to identify overloading or clipping in playback of recorded material.
- -Apply audio effects to audio samples (panning, equalization, compression).
- -Construct tracks by "cutting and pasting" sections of recorded material.
- -Create music to express a specific mood of a visual art piece.
- -Compose music influenced by the genre and time periods of other



	artistic mediumsApply electronic
	equalization effects to enhance individual music layers.

### **Benchmarks:**

Students will be assessed on their ability to:

- Integrate two or more forms, write and compose music using basic music notation (e.g., staff, clef, ledger lines, measures, time signature, notes, rests, key signature).
- Compose guitar track to blend with digitally created musical instruments.
- Record audio to blend with digitally created musical instruments, live drum recordings or guitar track recordings.
- Record live drum beats to blend with digitally created musical instruments, recorded audio or guitar tracks.
- Create, present and defend music soundtracks for movie scenes.

Academic Connections  ELA Literacy and/or Math Standard Sample Performance Task Aligned				
(if applicable, Science and/or Social Studies Standard):	the Academic Standard(s):			
SL.2. Integrate multiple sources of information presented in diverse formats and media	-Defend use of sound tracks for movie scenes			
SL.4 Present information, findings, and supporting evidence clearly, concisely, and logically such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose, audience, and task.	-Present music sound tracks			

INDICATOR #DMP 4: Perform Digital Music

SUB-INDICATOR 4.1 (Webb Level: 3 Strategic Thinking): Perform or demonstrate



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**SUB-INDICATOR 4.2 (Webb Level: 4 Extended Thinking):** Analyze and evaluate personally created music performances

**SUB-INDICATOR 4.3 (Webb Level: 4 Extended Thinking):** Analyze the venue and audience for appropriate presentation of performance

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Knowledge (Factual):	Understand (Conceptual):	Do (Application):
-Equipment placement	-Difference between live	-Compose various
on stage.	performance and studio.	musical pieces to present
		to audience.
-Use of technology for	-How to plan for a live	
performance.	audience.	-Listen, analyze, and
		critique student created
-Types of venues.	-Planning music selections	music.
	for intended audience(s).	
		-Assess and discuss the
	-Wiring connections to	layout of different
	power equipment.	venues.
	-Necessity of self-evaluation	
	for performance	
	improvements.	

### **Benchmarks:**

Students will be assessed on their ability to:

- Collaboratively create a "band" song project, presenting it for critique.
- Create a model of a music venue, including stage, audience and equipment placement.
- Design and present a visual layout or wiring schematic of the cabling needed to connect all of the equipment.

Academic Connections				
Sample Performance Task Aligned to				
the Academic Standard(s):				
( )				
-Discussion of "band" song project				
Discussion of bund song project				
I amount of applications and				
-Layout of cabling equipment				
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and style are appropriate to purpose,	
audience, and task.	

### **Additional Resources**

Please list any resources (e.g., websites, teaching guides, etc.) that would help teachers as they plan to teach these new standards.

### Websites include:

- Bassgorilla (tutorials) <a href="https://bassgorilla.com/">https://bassgorilla.com/</a>
- Digital Harbor High School Music Technology https://sites.google.com/site/dhhsmusictechnology/music-curriculum
- Digital Music Association <a href="http://www.digmedia.org/issues-and-policy/copyright-and-royalties/139-copyright-in-music">http://www.digmedia.org/issues-and-policy/copyright-and-royalties/139-copyright-in-music</a>
- Foley <a href="https://www.Marblehead.net/foley/jack.html">www.Marblehead.net/foley/jack.html</a>
- Health/Safety <a href="http://www.airsweb.com/blog/posts/2014/november/health-and-safety-in-the-music-events-industry/#.V2vipVexqYU">http://www.airsweb.com/blog/posts/2014/november/health-and-safety-in-the-music-events-industry/#.V2vipVexqYU</a>
- John Muir Middle School Digital Music Program - <a href="http://www.sjusd.org/schools/john muir/Pages/music/digital music program.">http://www.sjusd.org/schools/john muir/Pages/music/digital music program.</a> html
- Music Genre Lists <a href="http://www.musicgenreslist.com/">http://www.musicgenreslist.com/</a>
- Music Theory <a href="http://tobyrush.com/theorypages/">http://tobyrush.com/theorypages/</a>
- Music.tutsplus.com
- Social Media for Teachers <a href="http://www.edutopia.org/blog/social-media-resources-educators-matt-davis">http://www.edutopia.org/blog/social-media-resources-educators-matt-davis</a>
- Soundcloud.com
- Teaching Copyright <a href="https://www.teachingcopyright.org/">https://www.teachingcopyright.org/</a>
- US Copyright Office http://copyright.gov/policy/musiclicensingstudy/copyright-and-the-music-marketplace.pdf

### Online publications:

- DigitalMusicNews.com
- Pcmag.com

When looking for a Digital Audio Workstation (DAW), look for guides such as "The Ultimate Guide to DAW Software for 2015" (<a href="www.ehomerecordingstudio.com/best-daw-software/">www.ehomerecordingstudio.com/best-daw-software/</a>).

Youtube is an excellent resource for all different types of tutorials.